



# USSOCOM SBIR Successful Technology Pursuit



## Innovative Technology

**Topic Number** | SOCOM02-006

**Topic Title** | Worldwide C4I for Special Operations Forces Combatant Craft

Warfighters require secure, real-time communications systems for Combatant Crafts that are deployed worldwide. This communication system must have sufficient bandwidth to enable command structure decision making, monitor craft and personnel, and allow real-time failure analysis. Techno-Sciences has met this need through the development of the Integrated Maritime Surveillance System (IMSS). The system, provides a Maritime Domain Awareness capability to address threats to coastal resources, infrastructure, and critical waterways. IMSS functions similarly to fleet tracking systems used in the trucking industry and consists of a network of ships and shore based sensors, communications devices, and computing resources, which collect, transmit, analyze, and display maritime data such as automatic identification system, surface radar, surveillance cameras, global positioning system, equipment health monitors and radio transmissions of maritime traffic in wide operating areas. In addition, the Coastal Surveillance Station displays, on a single screen, all information as a common operational picture for key decision makers. The IMSS can be installed as a full Global Maritime Distress and Safety System compliant solution.

## Company and Contact Information

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## Military and Commercial Significance

Techno-Sciences received SBIR awards valued at over \$1.3 million from the Department of Defense and the National Science Foundation for the development of its technology.

The SBIR funding led to Phase III funding of more than \$70 million from the Navy's Space and Naval Warfare Systems Command. This funding went to provide, install, train, and support the IMSS for Indonesia and Malaysia to be used in counter-piracy and counter-terrorism missions.

The IMSS is operated by the Indonesian Navy, and consists of 18 Coastal Surveillance Stations, 11 Shipboard surveillance nodes, two Regional Command Centers, two Fleet Command Centers, and the Headquarters Command Center upgrade along the Strait of Malacca and the Sulawesi Sea. In Malaysia it provides eight Coastal Surveillance Stations and a Regional Command Center to monitor the eastern coast of Sabah on the Sulu and Sulawesi Seas.

This system has the potential to greatly enhance the ability of local Law Enforcement and Emergency Response Teams to respond to local emergencies.

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